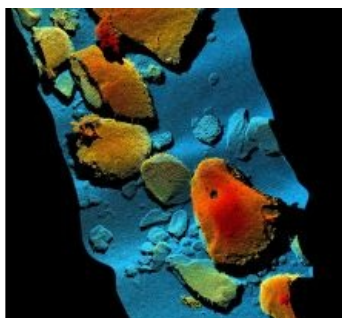


# 3D Mobile Seabed Mapping Using Underwater Laser Technology



Sonardyne has used 2G Robotics' underwater laser scanning technology to dynamically scan and map the seabed in Monterey Bay, California, USA. The high-resolution deepwater mapping of Sur Ridge was performed using 2G Robotics' ULS-500 underwater laser scanner mounted on an ROV.

For the deployment, the ROV was equipped and navigated using SPRINT 700 AAINS, 6G Wideband [Syrinx DVL](#) (600kHz), ROV Nav 6 LBL transceiver and a precision pressure sensor. [EIVA's hydrographic survey and navigation software](#) was integrated with the ULS-500 using EIVA's dedicated driver for 2G Robotics' systems to facilitate with data capturing and post-processing.

Sonardyne noted that laser mobile mapping is dramatically faster than static scanning, enabling wide areas to be covered quickly and efficiently whilst capturing extremely high resolution 3D models of the seabed.

Underwater laser scanning is an emerging technology that continues to provide accuracy, precision, and cost efficiency improvements for subsea surveys and inspections. 2G Robotics' underwater laser scanners generate true-scale, high-resolution 3D models in real-time of underwater structures, organisms, and environments. The high point density of 2G Robotics' data effectively resolves fine-scale dimensional features that acoustic and photographic methods fail to capture, allowing for a more detailed understanding and measure of structural and environmental complexity.

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<https://www.hydro-international.com/content/news/3d-mobile-seabed-mapping-using-underwater-laser-technology>

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